6. (Once Amended) The [hydrogel biomedical article] microparticle of claim 1, wherein the macromer has the formula:

in which R is a linear or branched  $C_1$ - $C_8$  alkylene or a linear or branched  $C_1$ - $C_{12}$  alkane;  $R_1$  is hydrogen, a  $C_1$ - $C_6$  alkyl, or a cycloalkyl;  $R_2$  is hydrogen or a  $C_1$ - $C_6$  alkyl; and  $R_3$  is an olefinically unsaturated electron attracting copolymerizable radical having up to 25 carbon atoms.

- 8. (Once Amended) The [hydrogel biomedical article] microparticle of claim 1, further comprising an active agent.
- 9. (Once Amended) The [hydrogel biomedical article] <u>microparticle</u> of claim 8, wherein the [hydrogel] <u>microparticle</u> releases the active agent over a period of time ranging from about 1 day to 6 months.
- 10. (Once Amended) The [hydrogel biomedical article] mic<u>roparticle</u> of claim 1, wherein the [hydrogel] <u>microparticle</u> is biodegradable.
- 11. (Once Amended) The [hydrogel biomedical article] microparticle of claim 1, further comprising a contrast agent.
- 12. (Once Amended) The [hydrogel biomedical article] microparticle of claim 1, wherein the crosslinkable groups are crosslinked via free radical polymerization.
- 13. (Once Amended) The [hydrogel biomedical article] microparticle of claim 11, wherein the free radical polymerization is redox initiated.

Please add the following new claims.

- 39. (New Claim) A hydrogel biomedical article formed from macromers having a polymeric backbone comprising units having a 1,2-diol or 1,3-diol structure and at least two pendant chains bearing crosslinkable groups, wherein the crosslinkable groups are crosslinked via redox initiated free radical polymerization.
- 40. (New Claim) The hydrogel biomedical article of claim 39, wherein the backbone polymer comprises poly(vinyl alcohol) (PVA) and copolymers thereof.
- 41. (New Claim) The hydrogel biomedical article of claim 39, wherein the macromer has the formula:

in which R is a linear or branched  $C_1$ - $C_8$  alkylene or a linear or branched  $C_1$ - $C_{12}$  alkane;  $R_1$  is hydrogen, a  $C_1$ - $C_6$  alkyl, or a cycloalkyl;  $R_2$  is hydrogen or a  $C_1$ - $C_6$  alkyl; and  $R_3$  is an olefinically unsaturated electron attracting copolymerizable radical having up to 25 carbon atoms.

- 42. (New Claim) The hydrogel biomedical article of claim 39, further comprising an active agent.
- 43. (New Claim) The hydrogel biomedical article of claim 42, wherein the hydrogel releases the active agent over a period of time ranging from about 1 day to 6 months.
- 44. (New Claim) The hydrogel biomedical article of claim 39, wherein the hydrogel is biodegradable.
- 45. (New Claim) The hydrogel biomedical article of claim 39, further comprising a contrast agent.
- 46. (New Claim) The hydrogel biomedical article of claim 39, wherein the article is selected from the group consisting of a catheter, tubing, vascular graft, heart valve, suture, prosthesis, dialysis membrane, filter, sensor, wound dressing, and drug delivery article.

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- 47. (New Claim) The hydrogel biomedical article of claim 39, wherein the article is a microsphere.
- 48. (New Claim) The hydrogel biomedical article of claim 39, wherein the hydrogel is a coating.
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- 49. (New Claim) The hydrogel biomedical article of claim 39, wherein the article is formed in a mold.
- 50. (New Claim) The hydrogel biomedical article of claim 39, wherein the article is formed on a substrate.
- 51. (New Claim) A hydrogel biomedical article formed from macromers having a polymeric backbone comprising units having a 1,2-diol or 1,3-diol structure and at least two pendant chains bearing crosslinkable groups, wherein the article is biodegradable.
- 52. (New Claim) The hydrogel biomedical article of claim 51, wherein the backbone polymer comprises poly(vinyl alcohol) (PVA) and copolymers thereof.
- 53. (New Claim) The hydrogel biomedical article of claim 51, wherein the macromer has the formula:

in which R is a linear or branched  $C_1$ - $C_8$  alkylene or a linear or branched  $C_1$ - $C_{12}$  alkane;  $R_1$  is hydrogen, a  $C_1$ - $C_6$  alkyl, or a cycloalkyl;  $R_2$  is hydrogen or a  $C_1$ - $C_6$  alkyl; and  $R_3$  is an olefinically unsaturated electron attracting copolymerizable radical having up to 25 carbon atoms.

- 54. (New Claim) The hydrogel biomedical article of claim 51, further comprising an active agent.
- 55. (New Claim) The hydrogel biomedical article of claim 51, wherein the particle releases the active agent over a period of time ranging from about 1 day to 6 months.

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- 56. (New Claim) The hydrogel biomedical article of claim 51, further comprising a contrast agent.
- 57. (New Claim) The hydrogel biomedical article of claim 51, wherein the article is selected from the group consisting of a catheter, tubing, vascular graft, heart valve, suture, prosthesis, dialysis membrane, filter, sensor, wound dressing, and drug delivery article.
- 58. (New Claim) The hydrogel biomedical article of claim 51, wherein the article is a microsphere.
- 59. (New Claim) The hydrogel biomedical article of claim 51, wherein the hydrogel is a coating.
- 60. (New Claim) The hydrogel biomedical article of claim 51, wherein the article is formed in a mold.
- 61. (New Claim) The hydrogel biomedical article of claim 51, wherein the article is formed on a substrate.

## REMARKS

## Claim Amendments

Claim 1 has been amended to incorporate the limitation of claim 16, so that it now states that the biomedical article is a microparticle formed from macromers having a polymeric backbone comprising units having a 1,2-diol or 1,3-diol structure and at least two pendant chains bearing crosslinkable groups.

New claims 39 and 51 recite claims 13 and 10, respectively, in independent form. Claim 39 recites a hydrogel biomedical article formed from macromers having a polymeric backbone comprising units having a 1,2-diol or 1,3-diol structure and at least two pendant chains bearing crosslinkable groups, wherein the crosslinkable groups are crosslinked via redox initiated free radical polymerization.

New claim 51 recites a hydrogel biomedical article formed from macromers having a polymeric backbone comprising units having a 1,2-diol or 1,3-diol structure and at least two pendant chains bearing crosslinkable groups, wherein the article is biodegradable.

Claims 2-4, 7, and 14-38 were cancelled to reduce the total number of claims. Claims 5, 6, and 8-13 were amended to reflect the changes to claim 1.